## SEQUENCE LISTING

\		SEQUENCE LIS	TING
(1) GEN	(D) 3.7	TYPODY	
(1) GEV	EKAL	INFORMATION:	
(i)	API	PLICANT:	Sherrol H. McDonough Daniel L. Kacian Nanibhushan Dattagupta Diane L. McAllister Philip Hammond Thomas B. Ryder Norman C. Nelson
(ii)	TIT	CLE OF INVENTION:	NUCLEIC ACID SEQUENCE AMPLIFICATION
, o (tii)	NUM	BER OF SEQUENCES:	23
(iv)	COR	RESPONDENCE ADDRESS:	
	(A) (B)	ADDRESSEE: STREET:	Lyon & Lyon 633 West Fifth Street Suite 4700
	(C) (D) (E) (F)	CITY: STATE: COUNTRY: ZIP:	Los Angeles California U.S.A. 90071-2066
(v)	COM	PUTER READABLE FORM:	
· · · · · · · · · · · · · · · · · · ·	(A) (B) (C) (D)	MEDIUM TYPE:  COMPUTER: OPERATING SYSTEM: SOFTWARE:	3.5" Diskette, 1.44 Mb storage IBM Compatible IBM P.C. DOS 5.0 Word Perfect 5.1
(vi)	CURI	RENT APPLICATION DATA	
	(A) (B) (C)	APPLICATION NUMBER: FILING DATE: CLASSIFICATION:	08/480,472 June 6, 1995
(vii)	PRIC	OR APPLICATION DATA:	
	(A) (B)	APPLICATION NUMBER: FILING DATE:	08/345,861 November 28, 1994
:	(A) (B)	APPLICATION NUMBER: FILING DATE:	07/925,405 August 4, 1992
(viii)	ATTO	RNEY/AGENT INFORMATION:	
	(A) (B) (C)	NAME: REGISTRATION NUMBER: REFERENCE/DOCKET NUMBER	Heber, Sheldon O. 38,179 R: 213/066

(ix)	TELECOMMUNICATION INF	ORMATION:	
	(A) TELEPHONE: (B) TELEFAX: (C) TELEX:	(213) 489-1600 (213) 955-0440 67-3510	
(2) INFO	ORMATION FOR SEQ ID NO:	1:	
(i)	SEQUENCE CHARACTERIST	ICS:	
97) /	(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: (D) TOPOLOGY:	62 base pairs nucleic acid single linear	
(ii)	SEQUENCE DESCRIPTION:	SEQ ID NO: 1:	
GAAATTAAT CACCAACAA		C ACAGCCGTCA GGGATAACCC	50 62
(2) INFO	ORMATION FOR SEQ ID NO:	2:	
(i)	SEQUENCE CHARACTERIST	tca:	
	(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: (D) TOPOLOGY:	31 base pairs nucleic acid single linear	
(ii)	SEQUENCE DESCRIPTION:	SEQ IN NO: 2:	
GGGATAAGC	CC TGGGAAACTG GGTCTAATA	сс	31
(2) INFO	ORMATION FOR SEQ ID NO:	3:	
( <u>i</u> )	SEQUENCE CHARACTERIST	ICS:	
·	(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: (D) TOPOLOGY:	24 base pairs nucleic acid single linear	
(ii)	SEQUENCE DESCRIPTION:	SEQ ID NO: 3:	
GTCTTGTGG	GT GGAAAGCGCT TTAG		24

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INFORMATION FOR SEQ ID NO: 4:
            SEQUENCE CHARACTERISTICS:
            (A)
                LENGTH:
                                    23 base pairs
           (<u>A</u>)
                TYPE:
                                   nucleic acid
           (C)
                STRANDEDNESS:
                                    single
           (D)
                TOPOLOGY:
                                   linear
          SEQUENCE DESCRIPTION: SEQ ID NO: 4:
    GATAGGA CCACGGGATG CAT
                                                                  23
      INFORMATION FOR SEQ ID NO: 5:
      (i)
           SEQUENCE CHARACTERISTICS:
           (A)
                LENGTH:
                                   20 base pairs
           (B)
                TYPE:
                                   nucleic acid
           (C)
                STRANDEDNESS:
                                   single
               TOPOLOGY:
           (D)
                                   linear
    (ii)
          SEQUENCE DESCRIPTION: SEQ ID NO:
                                              5:
CGGTGTGGGA TGACCCCGCG
                                                                 20
      INFORMATION FOR SEQ ID NO:
 (2)
      (i)
           SEQUENCE CHARACTERISTICS:
               LENGTH:
          (A)
                                   47 base pairs
          (B)
               TYPE:
                                   nucleic acid
               STRANDEDNESS:
          (C)
                                   sing1\e
          (D)
               TOPOLOGY:
                                   lineak
   (ii) SEQUENCE DESCRIPTION: SEQ ID NO:
AATTTAATAC GACTCACTAT AGGGAGACCA GGCCACTTCC GCTAACC
                                                                 47
(2)
     INFORMATION FOR SEQ ID NO:
     (i)
          SEQUENCE CHARACTERISTICS:
          (A)
               LENGTH:
                                  24 base pairs
          (B)
               TYPE:
                                  nucleic acid
          (C)
               STRANDEDNESS:
                                  single
          (D)
               TOPOLOGY:
                                  linear
   (ii)
         SEQUENCE DESCRIPTION: SEQ ID NO:
CGCGGAACAG GCTAAACCGC ACGC
                                                                24
```

(2) MIFORMATION FOR SEQ ID NO: 8:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 8:	
GGAGGATATG TCTCAGCGCT ACC	23
(2) INFORMATION FOR SEQ ID NO: 9:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH:  (B) TYPE:  nucleic acid  (C) STRANDEDNESS:  single  (D) TOPOLOGY:  linear	
(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 9:	
CGGCTGAGAG GCAGTACAGA AAGTGTCGTG GTTAGCGG	38
(2) INFORMATION FOR SEQ ID NO: 10:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 10:	
GGGTAACCGG GTAGGGGTTG TGTGTGCGGG GTTGTG	36
(2) INFORMATION FOR SEQ ID NO: 11:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 11:	
ATAATCCACC TATCCCAGTA GGAGAAAT	28

	(2) INFORMATION FOR SEQ ID NO: 12:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
10	(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 12:	
40 D	AATTTAATAC GACTCACTAT AGGGAGACCA CACCTTGTCT TATGTCCAGA	50 55
	(2) INFORMATION FOR SEQ ID NO: 13:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 13:	
	GCACGTAGTT AGCCGGTGCT TATTCTTCAG	30
	(2)	
	(2) INFORMATION FOR SEQ ID NO:\ 14:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 14:	
	AATTTAATAC GACTCACTAT AGGGAGAGCA AGCCTGATCC AGCCATGCCG	50 53
	(2) INFORMATION FOR SEQ ID NO: 15:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 15:	
(	GCTTGCGCCC ATTGTCCAAA ATTTCCCACT GC	32
\$	SSSD/6293; v01	

(2) INFORMATION FOR SEQ ID NO: 16:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 16:	
TCGGCCGCCG ATATTGGC	18
information for SEQ ID NO: 17:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 17:	
AACGGCCTTT TCTTCCCTGA CAAAAGTCCT TTACAACCCG	40
(2) INFORMATION FOR SEQ\ID NO: 18:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: (D) TOPOLOGY: 36 base pairs nucleic acid single linear	
(ii) SEQUENCE DESCRIPTION; SEQ ID NO: 18:	
CGTAGTTAGC CGGTGCTTAT TCTTCAGGTA CCGTCA	36
(2) INFORMATION FOR SEQ ID NO: \19:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 46 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 19:	
TAATATTAAC CCTCACTAAA GGGAGACCAG GCCACTTCCG CTAACC	46
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INFORMATION FOR SEQ ID NO: 20:
 (2)
      (i)
           SEQUENCE CHARACTERISTICS:
           (A)
                LENGTH:
                                   28 base pairs
           (B)
                TYPE:
                                   nucleic acid
           (C)
                STRANDEDNESS:
                                   single
           (D)
                TOPOLOGY:
                                   linear
          SEQUENCE DESCRIPTION: SEQ ID NO:
      CCACC TATCCCAGTA GGAGAAAT
                                                                  28
      INFORMATION FOR SEQ ID NO:
      (i)
           SEQUENCE CHARACTERISTICS:
          (A)
               LENGTH:
                                   55 base pairs
          (B)
               TYPE:
                                   nucleic acid
          (C)
               STRANDEDNESS:
                                   single
               TOPOLOGY:
          (D)
                                   linear
          SEQUENCE DESCRIPTION: SEQ ID NO:
 ATTTAATAC GACTCACTAT AGGGAGACCA CACCTTGTCT TATGTCCAGA
                                                                 50
                                                                 55
 (2)
      INFORMATION FOR SEQ ID NO:
      (i)
           SEQUENCE CHARACTERISTICS:
          (A)
               LENGTH:
                                   22 base pairs
               TYPE:
          (B)
                                   nucleic acid
          (C)
               STRANDEDNESS:
                                   single
               TOPOLOGY:
                                   linear
    (ii)
         SEQUENCE DESCRIPTION: SEQ ID NO:
GCCGTCACCC CACCAACAAG CT
                                                                 22
(2)
     INFORMATION FOR SEO ID NO:
                                    23:
     (i)
           SEQUENCE CHARACTERISTICS:
          (A)
               LENGTH:
                                   20 base pairs
          (B)
               TYPE:
                                  nucleic\acid
          (C)
               STRANDEDNESS:
                                   single
          (D)
               TOPOLOGY:
                                  linear
   (ii) SEQUENCE DESCRIPTION: SEQ ID NO:
CCAGGCCACT TCCGCTAACC
                                                                 20
SSSD/6293. v01
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